Practice worksheet | Probability

Conditional probabilities from tables/trees

Name: _____ Date: _____

6 questions | 14 marks

1. Using the club table, find $P(\text{drama} \mid \text{music})$. [2 marks]

Invented membership data for 60 students.

Music membership	Drama	Not drama	Total
Music	8	12	20
Not music	10	30	40
Total	18	42	60

2. Find $P(\text{not drama} \mid \text{not music})$. [2 marks]

Invented membership data for 60 students.

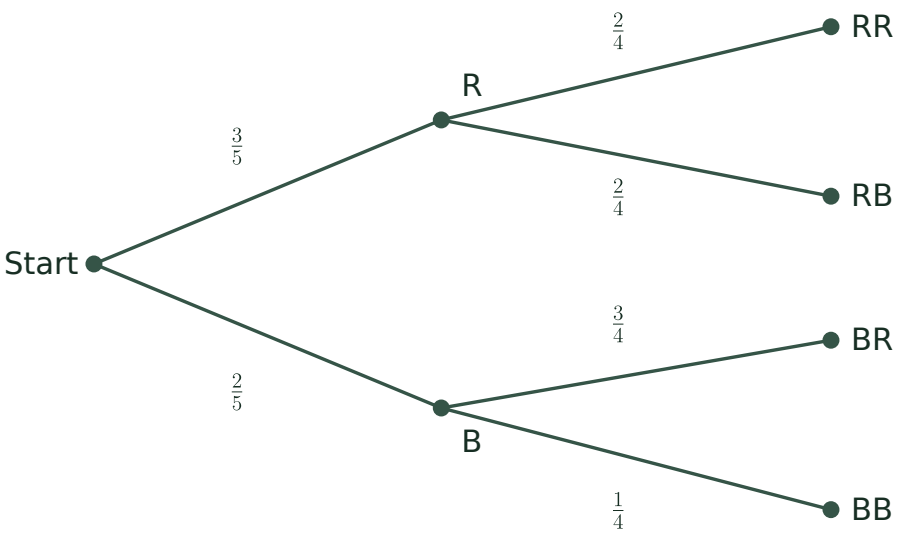
Music membership	Drama	Not drama	Total
Music	8	12	20
Not music	10	30	40
Total	18	42	60

3. Find $P(\text{music and drama})$. [2 marks]

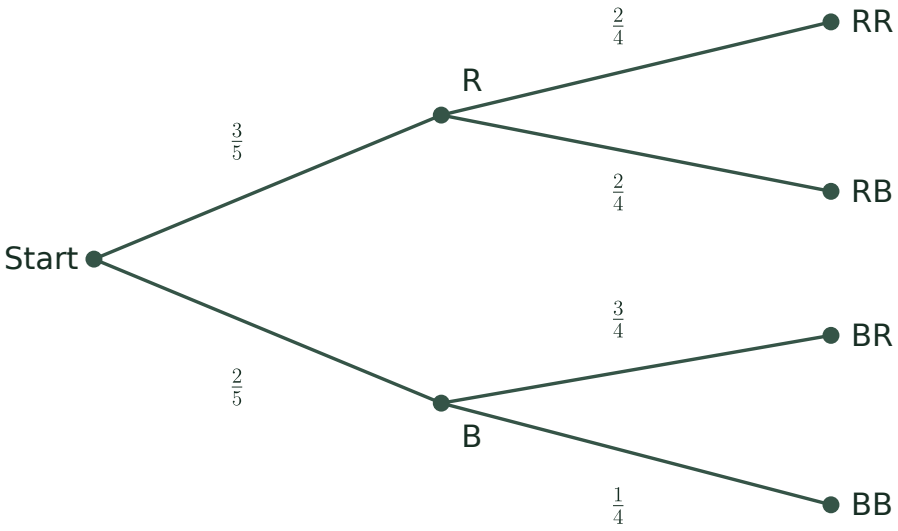
Invented membership data for 60 students.

Music membership	Drama	Not drama	Total
Music	8	12	20
Not music	10	30	40
Total	18	42	60

4. Use the tree to find $P(\text{two red})$. [2 marks]



5. Use the tree to find $P(\text{at least one red})$. [3 marks]



6. Explain how to check that a completed four-leaf tree is consistent. [3 marks]

